

1. A method for providing nutrition to a critical care canine comprising:  
administering an amount of an artificially produced canine milk substitute composition comprising, on a dry matter basis, from about 35 to 45% protein, from about 25 to 35% fat, and from about 10 to 25% carbohydrates.

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2. The method of claim 1 in which the source of protein comprises casein and whey in a weight ratio of about 70:30.

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3. The method of claim 1 in which said composition comprises about 38% protein.

4. The method of claim 1 in which said composition comprises about 28% fat.

5. The method of claim 1 in which said composition comprises about 19% carbohydrates.

6. The method of claim 1 in which the source of fat is selected from the group consisting of corn oil, canola oil, butter oil, arachidonic acid, docosahexaenoic acid, and blends thereof.

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7. The method of claim 1 in which said composition contains fatty acids expressed as a percentage of total fatty acids on a dry matter basis, of from 15 to 19% palmitic acid, from about 5 to 9% stearic acid, from about 34 to 38% oleic acid, from about 17 to 21% linoleic acid, from about 1 to 4%  $\alpha$ -linolenic acid, from about 0.5 to 2% arachidonic acid, from about 0.2 to 1% docosahexaenoic acid (DHA), from about 2 to 5% Omega-3 fatty acids, from about 18 to 22% Omega-6 fatty acids, and from about 1 to 4% trans fatty acids.

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8. The method of claim 1 in which said composition contains amino acids expressed as a percentage of total essential amino acids on a dry matter basis of from about 6 to 10% arginine, 4 to 8% histidine, 8 to 12% isoleucine, 16 to 20% leucine, from about 13 to 17% lysine, from about 2 to 7% methionine, from about 6 to 10% phenylalanine, from about 8 to 12% threonine, from about 1 to 4% tryptophan, from about 9 to 13% valine, from about 2 to 5% cystine, and from about 2 to 6% tyrosine.

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9. The method of claim 1 in which said composition of claim 1 contains from about 4 to 8% by weight lactose.

10. The method of claim 1 in which said composition contains about 0.50% by weight  
5 fructooligosaccharide.

11. The method of claim 1 in which said composition contains from about 27 to 37% by weight fatty acids.

12. The method of claim 1 in which said composition contains from about 15 to 25% by weight essential amino acids.

13. A method of providing nutrition to a critical care feline comprising:  
15 administering an amount of an artificially produced feline milk substitute composition comprising, on a dry matter basis, from about 30 to about 50% protein, from about 25 to about 50% fat, and from about 10 to about 25% carbohydrates; wherein the source of protein comprises casein and whey in a weight ratio of about 1:1.

14. The method of claim 13 wherein said protein is present in said composition in amounts from about 35 percent to about 45%.

15. The method of claim 14 wherein said protein is present in an amount of about 40%.

16. The method of claim 13 wherein said fat is present in said composition in amounts from about 30 to about 40%.

17. The method of claim 16 wherein said fat is present in an amount of about 35%.

18. The method of claim 13 wherein said carbohydrates are present in said composition in amounts from about 13 to about 20%.

19. The method of claim 18 wherein said carbohydrates are present in amounts from about 15 to about 17%.
20. The method of claim 19 wherein the source of said carbohydrates comprises a combination of lactose and maltodextrin.
21. The method of claim 20 wherein said lactose is present in an amount of from between about 6.5 to about 10% and said maltodextrin is present in an amount of from between about 6.5 to about 10%.
22. The method of claim 20 wherein said lactose is present in an amount of from between about 7.5 to about 8.5% and said maltodextrin is present in an amount of from between about 7.5 to about 8.5%.
23. The method of claim 20 wherein said lactose and maltodextrin are present in substantially equal amounts.
24. The method of claim 13 wherein said composition further comprises arachidonic acid.
25. The method of claim 13 wherein said composition further comprises docosahexaenoic acid.
26. The method of claim 13 wherein said composition further comprises butter oil, canola oil, and corn oil.
27. A method of providing nutrition to a critical care feline comprising:  
administering an artificially produced feline milk substitute composition comprising protein, fat, and carbohydrates, and expressed as a percentage of total fatty acids on a dry matter basis, from about 17 to about 20% linoleic acid, from about 0.5 to about 1.0% arachidonic acid, and from about 0.2 to about 0.4% docosahexaenoic acid.

28. The method of claim 27 wherein said linoleic acid is present in said composition in an amount of about 18%.
29. The method of claim 27 wherein said arachidonic acid is present in said composition in an amount of about 0.7%.
30. The method of claim 27 wherein said docosahexaenoic acid is present in said composition in an amount of about 0.3%.
31. The method of claim 27 wherein said protein comprises casein and whey in a ratio of about 1:1 on a dry matter basis.
32. A method for providing nutrition to a critical care feline comprising:  
administering an artificially produced feline milk substitute composition comprising protein, fat and carbohydrates, and expressed as a percentage of total essential amino acids on a dry matter basis, from about 4.0 to about 8.0% arginine, from about 1.0 to about 3.0% tryptophan, and from about 2.0 to about 5.0% valine.
33. The method of claim 32 wherein said arginine is present in said composition in an amount of about 6.5%.
34. The method of claim 32 wherein said tryptophan is present in said composition in an amount of about 1.7%.
35. The method of claim 32 wherein said valine is present in said composition in an amount of about 3.7%.
36. The method of claim 32 wherein said protein comprises casein and whey in a weight ratio of about 1:1 on a dry matter basis.